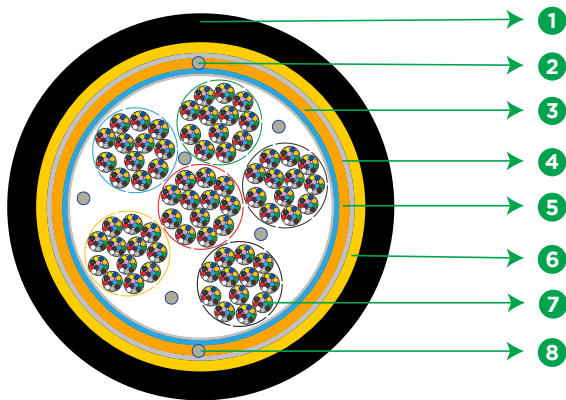


Celesta

I/O SJ GRY G.657 A2 Gel Free LSZH, LSZH OFC



- | | | | |
|------------------------------|--------------------------------|--------------------|-----------------------------|
| 1 OUTER SHEATH | 2 WATER SWELLABLE YARNS (WSYs) | 3 LSZH INNER LAYER | 4 WATER BLOCKING TAPE (WBT) |
| 5 STRENGTH MEMBERS (GRY/ARY) | 6 FR TAPE | 7 BUNCH OF IBR(S) | 8 WATER SWELLABLE YARNS |

* Typical Construction Diagram - Not to Scale

Features & Benefits

- Special bend insensitive fibre results in increased power budget and network serviceability
- Unique cable design allows deployment by blowing and pulling
- Innovative Color-coded bonded design for easier and faster Ribbon identification
- Black Printing for easier and faster Ribbon identification
- Precise fibre and ribbon geometries result in excellent mass fusion splicing yields
- Multiple ribbon bundles design with ripcords for easy and quick mid-span access
- Aramid reinforced plastic strength members for mitigating preferential bending
- Dry water-blocking technology for gel free core helps in quicker end preparation

Product Details

STL's Celesta Intermittent Bonded Ribbon Cable combines robust performance for duct installations with the productivity of high-count mass fusion splicing. The innovative ribbon bond design results in dense fibre packing and smaller cable diameter. This cable offers an outstanding solution for demanding high-growth, high-bandwidth communications applications like data centres, equipment connections within cabinets, outside plant applications.

Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, ITU-T, RoHS, REACH.

Printing Details

Printing: STERLITE SM "FIBRE COUNT" "FIBRE TYPE" CELESTA ISP/OSP OFC LASER SYMBOL TELEPHONE SYMBOL
YEAR OF MANUFACTURE LENGTH CODE METER MARKING

Note: The accuracy of marking shall be + 0.5%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supersedes the earlier markings.

Specifications

Physical Characteristics	
Fibre Type	Sterlite Fibre ITU-T G.657 A2
Maximum Cabled Attenuation (dB/km)	1310nm: 0.4 & 1550nm: 0.3
PMD LDV (ps/sqrt.km)	</= 0.2
Ribbon Type	Intermittently Bonded Ribbon (IBR)
Fibre per IB Ribbon	12
Tube Color	White
Water Blocking Elements	Yarns and Water Swellable Tape
Fire Retardant Tape	Over the buffer tube and works as a heat barrier
Peripheral Strength Member	GRY (Glass Roving Yarns)
No of Ripcords Below Outer Sheath	2
Outer Sheath Material	UV Stabilized White LSZH

Cable Characteristics					
Fibre Count	Bundling of Ribbons (Bundle X Fibre)	Unit Binder Color	Cable Diameter mm (±5%)	Cable Weight Kg/km (± 10%)	Tensile Strength N
72	1 X 72	Blue	12.7	160	1360
96	1 X 96	Blue	13.0	170	1360
144	1 X 144	Blue	13.7	180	1360
288	1 X 288	Blue	15.2	215	1360
432	3 X 144	Blue, Orange, Green	18.2	380	1360
576	4 X 144	Blue, Orange, Green, Brown	19.4	475	1360
864	6 X 144	Blue, Orange, Green, Brown, Slate, White	21.8	700	1360
1008	7 X 144	Blue, Orange, Green, Brown, Slate, White, Red	22.8	830	1360

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	Cable Performance	Testing Standard
Tensile Strength (N)	1360	IEC-60794-1-21-E1
Crush Resistance (N/100mm)	1000	IEC-60794-1-21-E3
Impact Strength (Nm)	5	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Min. Bend Radius (During Installation)	20 D	IEC-60794-1-21-E11
Min. Bend Radius (After Installation)	15 D	IEC-60794-1-21-E11
Water Penetration Test	1m waterhead, 3m samples, 24 h	IEC-60794-1-22-F5
Temperature Performance	Max. change in attenuation shall be \leq 0.15 dB/km	IEC-60794-1-22-F1
Installation	-30°C to +70°C	
Operation	-40°C to +70°C	
Storage	-40°C to +70°C	

Note: All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be \leq 0.1 dB/km

Packing and Lengths

Drum Type	Length Multiple (km)	Order Tolerance	Short Lengths
Wooden Drums	2 ± 5%	± 5%	Max 5%, Customer Approval

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For additional information please contact your sales representative.

You can also visit our website at www.stl.tech

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